

# MATH 2050B Mathematical Analysis I

2023-24 Term 1

## Problem Set 8

*due on Nov 10, 2023 (Friday) at 11:59PM*

**Instructions:** You are allowed to discuss with your classmates or seek help from the TAs but you are required to write/type up your own solutions. You can either type up your assignment or scan a copy of your written assignment into ONE PDF file and submit through Gradescope on/before the due date. Please remember to write down your name and student ID. **No late homework will be accepted.** All the exercises below are taken from the textbook.

**Required Readings:** Chapter 4.1, 4.2

**Optional Readings:** Chapter 4.3

### Problems to hand in

Section 4.1: Exercise # 7, 9(d), 12(d)

Section 4.2: Exercise # 5, 9, 15

### Suggested Exercises

Section 4.1: Exercise # 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15

Section 4.2: Exercise # 2, 3, 4, 6, 7, 8, 10, 11, 13, 14

### Challenging Exercises (optional)

1. Section 4.1: Exercise # 16, 17
2. Section 4.2: Exercise # 12